

T9B01 (C)

Why are VHF/UHF signals not normally heard over long distances?

- A. They are too weak to go very far
- B. FCC regulations prohibit them from going more than 50 miles
- C. VHF and UHF signals are usually not reflected by the ionosphere**
- D. They collide with trees and shrubbery and fade out

T9B02 (D)

What might be happening when we hear a VHF signal from long distances?

- A. Signals are being reflected from outer space
- B. Someone is playing a recording to us
- C. Signals are being reflected by lightning storms in our area
- D. A possible cause is sporadic E reflection from a layer in the ionosphere**

T9B03 (B)

What is the most likely cause of sudden bursts of tones or fragments of different conversations that interfere with VHF or UHF signals?

- A. The batteries in your transceiver are failing
- B. Strong signals are overloading the receiver and causing undesired signals to be heard**
- C. The receiver is picking up low orbit satellites
- D. A nearby broadcast station is having transmitter problems

T9B04 (A)

What is the radio horizon?

- A. The point where radio signals between two points are blocked by the curvature of the Earth**
- B. The distance from the ground to a horizontally mounted antenna
- C. The farthest point you can see when standing at the base of your antenna tower
- D. The shortest distance between two points on the Earth's surface

T9B05 (D)

What should you do if a station reports that your signals were strong just a moment ago, but now they are weak or distorted?

- A. Change the batteries in your radio to a different type
- B. Speak more slowly so he can understand your better
- C. Ask the other operator to adjust his squelch control
- D. Try moving a few feet, random reflections may be causing multipath distortion.**

T9B06 (B)

Why do UHF signals often work better inside of buildings than VHF signals?

- A. VHF signals lose power faster over distance
- B. The shorter wavelength of UHF signals allows them to more easily penetrate urban areas and buildings**
- C. This is incorrect; VHF works better than UHF inside buildings
- D. UHF antennas are more efficient than VHF antennas